

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00629 ~ C1216XT-50LXXK-NDEX-TCY-NLXXMW.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] SP-00629\_M-50L  
[TESTLAB] VLS-245-981  
[MANUFAC] Spectrum Lighting  
[ISSUE DATE] 9/20/2017  
[UPDATE] 3/9/2018  
[LUMCAT] C1216XT-50L-xxK-ND-EX-TCY-NL  
[LUMINAIRE] Nom. 12" Diam. x 16" H. Accent Biaxial Adjustable Downlight Cylinder  
[OTHER] Internal Reflector, Narrow Beam  
[OTHER] No Lens  
[OTHER] 19.9 Degree Beam Angle  
[OTHER] Aimed at 0 Degrees  
[LAMPCAT] N/A, 19mm LES  
[LAMP] N/A, 83 CRI  
[OTHER] Total Luminaire Watts is approximate  
[OTHER] LEDXT lumen output is the same for all available CCT's  
[OTHER] This report prepared by Spectrum Lighting

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4535
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	87
Total Luminaire Watts	52
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.38
Spacing Criterion (90-270)	0.36
Spacing Criterion (Diagonal)	0.36
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.44 ft (Diameter)
Luminous Width (90-270)	0.44 ft (Diameter)
Luminous Height	0.00 ft

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00629 ~ C1216XT-50LXXK-NDEX-TCY-NLXXMW.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	68318	71396	71840
55	27154	24856	22621
65	4584	5269	4504
75	5067	5805	5350
85	6781	7532	7699

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**CANDELA TABULATION**

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>	<u>202.5</u>
0	13571.694	13571.694	13571.694	13571.694	13571.694	13571.694	13571.694	13571.694	13571.694	13571.694
5	11968.019	12286.356	12049.810	12118.305	11683.012	11323.523	11222.831	10635.049	10686.025	10265.473
10	7309.875	7730.219	7438.353	7573.758	7037.824	6612.077	6489.643	5838.091	5921.419	5522.208
15	3588.066	3820.524	3649.126	3763.319	3432.758	3226.524	3160.410	2859.560	2896.369	2726.380
20	2153.661	2217.557	2170.789	2206.248	2095.099	2035.664	2016.978	1950.552	1957.900	1923.251
25	1823.765	1844.307	1836.257	1838.423	1819.754	1794.394	1781.778	1767.627	1764.888	1769.554
30	1724.240	1751.285	1747.061	1746.341	1735.619	1718.345	1701.734	1677.642	1681.716	1686.566
35	1599.530	1637.859	1632.300	1643.797	1601.230	1566.485	1537.669	1465.015	1472.198	1424.100
40	1176.392	1254.174	1236.386	1277.167	1201.017	1110.944	1065.255	954.979	926.850	867.770
45	689.275	735.290	720.327	756.315	724.805	670.357	640.060	582.877	555.588	544.227
50	459.605	466.635	432.877	466.785	439.079	424.645	424.327	412.806	409.282	415.293
55	222.226	231.971	203.424	208.407	185.132	177.526	186.454	179.208	183.950	182.910
60	58.198	67.560	61.274	58.535	49.877	53.067	54.731	57.201	59.759	57.466
65	27.644	24.482	31.771	27.022	27.160	31.281	36.577	41.288	35.592	38.018
70	19.839	15.391	24.160	22.693	20.207	35.509	37.676	34.834	34.137	35.082
75	18.712	19.491	21.436	19.847	19.757	34.602	39.273	35.914	36.861	43.222
80	18.354	16.573	18.332	16.527	15.585	35.322	36.582	39.801	36.091	34.485
85	8.432	10.175	9.367	10.382	9.574	30.578	27.732	30.491	28.554	27.766
90	2.435	1.395	3.034	1.480	2.417	19.105	5.836	16.398	6.008	19.574
95	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

**Vert. Horizontal Angles**

	<u>225.0</u>	<u>247.5</u>	<u>270.0</u>	<u>292.5</u>	<u>315.0</u>	<u>337.5</u>	<u>360.0</u>
0	13571.694	13571.694	13571.694	13571.694	13571.694	13571.694	13571.694
5	10542.612	10341.703	10788.378	11353.072	11451.890	12031.438	11968.019
10	5797.583	5621.708	6065.200	6622.181	6747.128	7394.309	7309.875
15	2840.693	2752.692	2962.597	3222.099	3296.191	3640.755	3588.066
20	1945.247	1931.345	1981.611	2046.459	2061.304	2163.969	2153.661
25	1771.414	1778.612	1783.008	1800.717	1797.028	1823.491	1823.765
30	1695.959	1696.219	1705.193	1712.314	1701.524	1718.309	1724.240
35	1469.159	1441.370	1514.973	1547.246	1548.765	1603.787	1599.530
40	896.728	883.933	952.209	1029.246	1064.186	1167.463	1176.392
45	538.519	526.432	550.650	590.618	618.680	666.843	689.275

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<b>50</b>	417.520	402.779	426.350	436.067	430.531	467.240	459.605
<b>55</b>	191.878	186.856	200.485	210.087	192.899	228.244	222.226
<b>60</b>	62.092	52.574	57.176	52.971	50.118	59.682	58.198
<b>65</b>	38.796	35.942	40.446	21.474	24.485	23.905	27.644
<b>70</b>	35.752	31.575	31.141	20.366	22.323	20.449	19.839
<b>75</b>	36.682	33.462	36.526	15.860	18.350	18.190	18.712
<b>80</b>	33.473	35.644	35.946	13.673	14.470	16.080	18.354
<b>85</b>	24.575	26.589	29.323	8.657	9.429	9.959	8.432
<b>90</b>	7.807	18.894	15.826	0.778	3.347	1.499	2.435
<b>95</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>100</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>105</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>110</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>115</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>120</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>125</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>130</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>135</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>140</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>145</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>150</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>155</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>160</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>165</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>170</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>175</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>180</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	1958.19	N.A.	43.20
0-30	2806.8	N.A.	61.90
0-40	3721.92	N.A.	82.10
0-60	4447.94	N.A.	98.10
0-80	4513.47	N.A.	99.50
0-90	4532.99	N.A.	100.00
10-90	3595.2	N.A.	79.30
20-40	1763.73	N.A.	38.90
20-50	2293.45	N.A.	50.60
40-70	762.55	N.A.	16.80
60-80	65.53	N.A.	1.40
70-80	29.00	N.A.	0.60
80-90	19.52	N.A.	0.40
90-110	2.15	N.A.	0.00
90-120	2.15	N.A.	0.00
90-130	2.15	N.A.	0.00
90-150	2.15	N.A.	0.00
90-180	2.15	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	4535.14	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	937.79
10-20	1020.4
20-30	848.61
30-40	915.12
40-50	529.72
50-60	196.30
60-70	36.53
70-80	29.00
80-90	19.52
90-100	2.15
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

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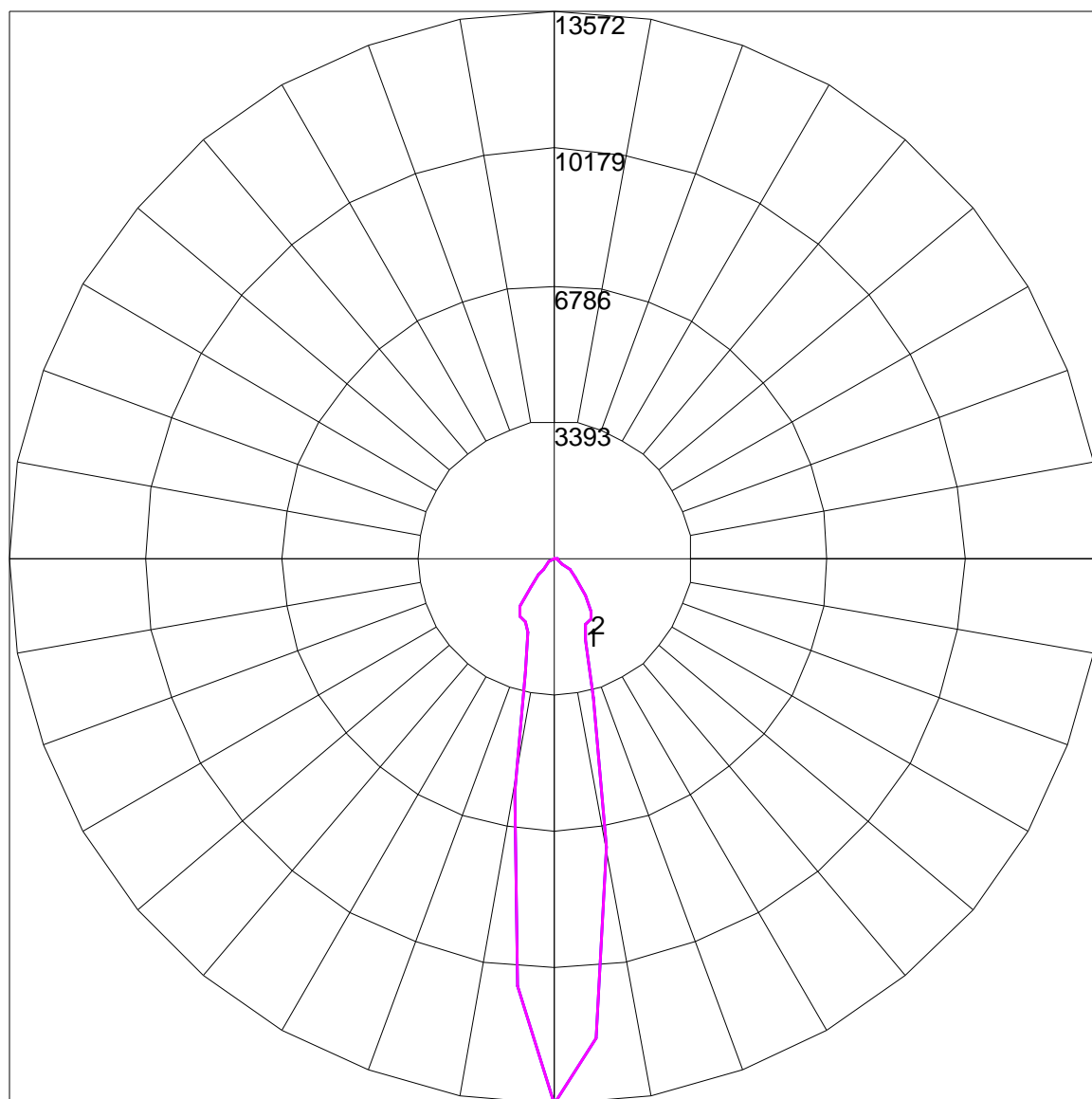
## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	113	110	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95	93
2	107	102	98	94	105	100	97	93	97	94	91	94	92	89	91	89	87	86
3	102	95	90	86	100	94	89	85	91	87	84	89	85	82	86	83	81	79
4	96	89	83	79	95	88	82	78	85	81	77	83	79	76	81	78	75	74
5	92	83	77	73	90	82	77	72	80	75	72	79	74	71	77	73	70	69
6	87	78	72	68	86	77	72	67	76	71	67	74	70	66	73	69	66	65
7	83	74	68	63	82	73	67	63	72	67	63	70	66	62	69	65	62	61
8	79	70	64	60	78	69	63	59	68	63	59	67	62	59	66	62	59	57
9	76	66	60	56	75	66	60	56	65	60	56	64	59	56	63	59	56	54
10	73	63	57	53	72	63	57	53	62	57	53	61	56	53	60	56	53	52

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POLAR GRAPH



Maximum Candela = 13571.694 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Vertical Plane Through Horizontal Angles (0 - 180)